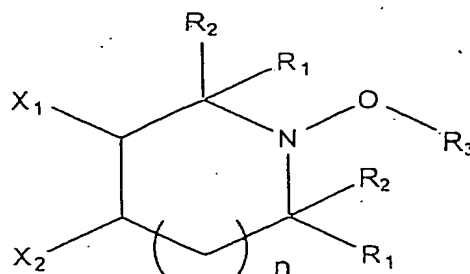


CLAIMS

1. A process for the preparation of block copolymers by means of radicalic polymerization which comprises:

a) polymerizing a vinylaromatic monomer at a temperature higher than or equal to 120°C in the presence of a radicalic initiating system ^{consisting of} ~~comprising~~ a compound having general formula (I):



wherein R₁ and R₂, the same or different, represent a methyl or ethyl radical, X₁ represents a hydrogen atom, X₂ represents a hydrogen atom or a hydroxyl or X₁ and X₂, the same or different, represent a C₁-C₄ (iso)alkyl radical, or, they jointly form an aromatic ring, n is equal to zero or 1 and R₃ represents a radical selected from one of the following groups:

-C(CH₃)₂-CN;

-C(CH₃)₂-Ph;

-CHCH₃Ph;

or R₃ is absent, as in that position there is an uncoupled electron, used in a mixture with <*>

spect to the total moles of the monomers fed.

~~8. The process according to any of the previous claims, wherein the initiator having general formula (I) is used in~~

~~a mixture with~~ * $\left\langle \right.$ radical generator compounds (G) selected

5 from peroxides, peresters, percarbonates, azobisdial-
kyldinitriles, with molar ratios I/G lower than 4; $\left. \right\rangle$

~~8.~~ ¹ 8. The process according to claim ~~8~~, wherein the initia-
tor having general formula (I) is used with free radical
generators (G) selected from dibenzoyl peroxide, dicumyl
10 peroxide, N,N'-azobis-(diisobutyronitrile) with molar ra-
tios I/G ranging from 1 to 3.

⁹ ~~10.~~ 9. The process according to any of the previous claims,
wherein the polymerization of both steps (a) and (b) is
carried out batchwise, in continuous or semi-continuous at
15 a temperature higher than 120°C and at a pressure which is
such as to maintain the monomers in liquid phase.

¹⁰ ~~11.~~ 10. The process according to any of the previous claims,
wherein in the radicalic initiating system having general
formula (I), X₁ and X₂ jointly form an aromatic ring, and n
20 is equal to zero.

¹¹ ~~12.~~ ¹⁰ 11. The process according to claim ~~11~~, wherein the initia-
tor having general formula (I) is selected from:

1,1,3,3-tetraethyl-2-(2-cyanoprop-2-yl)-2,3-dihydro-1H-
isoindole;

25 1,1,3,3-tetraethyl-2-(2-phenylprop-2-yl)-2,3-dihydro-1H-

isoindole;

1,1,3,3-tetraethyl-2-(2-phenylethyl)-2,3-dihydro-1H-

isoindole;

1,1,3,3-tetramethyl-2-(2-cyanoprop-2-yl)-2,3-dihydro-1H-

5 isoindole;

1,1,3,3-tetramethyl-2-(2-phenylprop-2-yl)-2,3-dihydro-1H-

isoindole;

1,1,3,3-tetramethyl-2-(2-phenylethyl)-2,3-dihydro-1H-

isoindole.

10 ¹²
~~13~~ Block copolymers based on vinylaromatic monomers and
monomers deriving from (meth)acrylic acid obtained with the
process according to any of the previous claims.

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